

MT. Davis



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/256,237

DATE: 05/06/2003

TIME: 11:11:10

Input Set : N:\Crf3\RULE60\09256237.RAW.txt

Output Set: N:\CRF4\05062003\I256237.raw

#

32

KD

5-18-03

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Heidtmann, Hans H.

6 Mueller, Rolf

7 Sedlacek, Hans-Harald

9 (ii) TITLE OF INVENTION: NUCLEIC ACID CONSTRUCT FOR EXPRESSING

10 ACTIVE SUBSTANCES WHICH CAN BE ACTIVATED BY PROTEASES,

AND

11 PREPARATION AND USE

13 (iii) NUMBER OF SEQUENCES: 62

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Foley & Lardner

17 (B) STREET: 3000 K Street, N.W., Suite 500

18 (C) CITY: Washington

19 (D) STATE: D.C.

20 (E) COUNTRY: USA

21 (F) ZIP: 20007-5109

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/256,237

C--> 31 (B) FILING DATE: 24-Feb-1999

32 (C) CLASSIFICATION:

34 (vii) PRIOR APPLICATION DATA:

W--> 36 (A) APPLICATION NUMBER: US/09/008,308

37 (B) FILING DATE: 16-JAN-1998

W--> 39 (A) APPLICATION NUMBER: DE 197 01 141.1

40 (B) FILING DATE: 16-JAN-1997

42 (viii) ATTORNEY/AGENT INFORMATION:

43 (A) NAME: Sandercock, Colin G.

44 (B) REGISTRATION NUMBER: 31,298

45 (C) REFERENCE/DOCKET NUMBER: 026083/0189

47 (ix) TELECOMMUNICATION INFORMATION:

48 (A) TELEPHONE: (202)672-5300

49 (B) TELEFAX: (202)672-5399

50 (C) TELEX: 904136

53 (2) INFORMATION FOR SEQ ID NO: 1:

55 (i) SEQUENCE CHARACTERISTICS:

56 (A) LENGTH: 4 amino acids

57 (B) TYPE: amino acid

58 (C) STRANDEDNESS:

ENTERED

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```

59          (D) TOPOLOGY: linear
61      (ii) MOLECULE TYPE: peptide
66      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 68      Xaa Xaa Arg Xaa
69          1
71      (2) INFORMATION FOR SEQ ID NO: 2:
73          (i) SEQUENCE CHARACTERISTICS:
74              (A) LENGTH: 68 base pairs
75              (B) TYPE: nucleic acid
76              (C) STRANDEDNESS: double
77              (D) TOPOLOGY: linear
W--> 79      (ii) MOLECULE TYPE: DNA
84      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
86      AGCAGGTGTT GGGAGGCAGC AGGTGTTGGG AGGCAGCAGG TGTTGGGAGG CAGCAGGTGT      60
88      TGGGAGGC      68
90      (2) INFORMATION FOR SEQ ID NO: 3:
92          (i) SEQUENCE CHARACTERISTICS:
93              (A) LENGTH: 41 base pairs
94              (B) TYPE: nucleic acid
95              (C) STRANDEDNESS: double
96              (D) TOPOLOGY: linear
W--> 98      (ii) MOLECULE TYPE: DNA
103      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
105      GGCCGATGGG CAGATAGAGG GGGCCGATGG GCAGATAGAG G      41
107      (2) INFORMATION FOR SEQ ID NO: 4:
109          (i) SEQUENCE CHARACTERISTICS:
110              (A) LENGTH: 5 amino acids
111              (B) TYPE: amino acid
112              (C) STRANDEDNESS:
113              (D) TOPOLOGY: linear
115          (ii) MOLECULE TYPE: peptide
117          (v) FRAGMENT TYPE: internal
122      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
124      Cys Pro Gly Arg Val
125          1      5
127      (2) INFORMATION FOR SEQ ID NO: 5:
129          (i) SEQUENCE CHARACTERISTICS:
130              (A) LENGTH: 6 amino acids
131              (B) TYPE: amino acid
132              (C) STRANDEDNESS:
133              (D) TOPOLOGY: linear
135          (ii) MOLECULE TYPE: peptide
137          (v) FRAGMENT TYPE: internal
142      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
144      Cys Pro Gly Arg Val Val
145          1      5
147      (2) INFORMATION FOR SEQ ID NO: 6:
149          (i) SEQUENCE CHARACTERISTICS:
150              (A) LENGTH: 5 amino acids

```

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151 (B) TYPE: amino acid  
152 (C) STRANDEDNESS:  
153 (D) TOPOLOGY: linear  
155 (ii) MOLECULE TYPE: peptide  
157 (v) FRAGMENT TYPE: internal  
162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
164 Cys Pro Gly Arg Ile  
165 1 5  
167 (2) INFORMATION FOR SEQ ID NO: 7:  
169 (i) SEQUENCE CHARACTERISTICS:  
170 (A) LENGTH: 6 amino acids  
171 (B) TYPE: amino acid  
172 (C) STRANDEDNESS:  
173 (D) TOPOLOGY: linear  
175 (ii) MOLECULE TYPE: peptide  
177 (v) FRAGMENT TYPE: internal  
182 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
184 Cys Pro Gly Arg Ile Val  
185 1 5  
187 (2) INFORMATION FOR SEQ ID NO: 8:  
189 (i) SEQUENCE CHARACTERISTICS:  
190 (A) LENGTH: 4 amino acids  
191 (B) TYPE: amino acid  
192 (C) STRANDEDNESS:  
193 (D) TOPOLOGY: linear  
195 (ii) MOLECULE TYPE: peptide  
197 (v) FRAGMENT TYPE: internal  
202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
204 Pro Arg Phe Lys  
205 1  
207 (2) INFORMATION FOR SEQ ID NO: 9:  
209 (i) SEQUENCE CHARACTERISTICS:  
210 (A) LENGTH: 5 amino acids  
211 (B) TYPE: amino acid  
212 (C) STRANDEDNESS:  
213 (D) TOPOLOGY: linear  
215 (ii) MOLECULE TYPE: peptide  
217 (v) FRAGMENT TYPE: internal  
222 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
224 Pro Arg Phe Lys Ile  
225 1 5  
227 (2) INFORMATION FOR SEQ ID NO: 10:  
229 (i) SEQUENCE CHARACTERISTICS:  
230 (A) LENGTH: 6 amino acids  
231 (B) TYPE: amino acid  
232 (C) STRANDEDNESS:  
233 (D) TOPOLOGY: linear  
235 (ii) MOLECULE TYPE: peptide  
237 (v) FRAGMENT TYPE: internal

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Input Set : N:\Crf3\RULE60\09256237.RAW.txt

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242 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
244 Pro Arg Phe Lys Ile Ile  
245 1 5  
247 (2) INFORMATION FOR SEQ ID NO: 11:  
249 (i) SEQUENCE CHARACTERISTICS:  
250 (A) LENGTH: 6 amino acids  
251 (B) TYPE: amino acid  
252 (C) STRANDEDNESS:  
253 (D) TOPOLOGY: linear  
255 (ii) MOLECULE TYPE: peptide  
257 (v) FRAGMENT TYPE: internal  
262 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
264 Pro Arg Phe Lys Ile Val  
265 1 5  
267 (2) INFORMATION FOR SEQ ID NO: 12:  
269 (i) SEQUENCE CHARACTERISTICS:  
270 (A) LENGTH: 5 amino acids  
271 (B) TYPE: amino acid  
272 (C) STRANDEDNESS:  
273 (D) TOPOLOGY: linear  
275 (ii) MOLECULE TYPE: peptide  
277 (v) FRAGMENT TYPE: internal  
282 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
284 Arg Arg Phe Phe Leu  
285 1 5  
287 (2) INFORMATION FOR SEQ ID NO: 13:  
289 (i) SEQUENCE CHARACTERISTICS:  
290 (A) LENGTH: 6 amino acids  
291 (B) TYPE: amino acid  
292 (C) STRANDEDNESS:  
293 (D) TOPOLOGY: linear  
295 (ii) MOLECULE TYPE: peptide  
297 (v) FRAGMENT TYPE: internal  
302 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
304 Arg Arg Phe Phe Leu His  
305 1 5  
307 (2) INFORMATION FOR SEQ ID NO: 14:  
309 (i) SEQUENCE CHARACTERISTICS:  
310 (A) LENGTH: 6 amino acids  
311 (B) TYPE: amino acid  
312 (C) STRANDEDNESS:  
313 (D) TOPOLOGY: linear  
315 (ii) MOLECULE TYPE: peptide  
317 (v) FRAGMENT TYPE: internal  
322 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
324 Arg Arg Phe Phe Leu Val  
325 1 5  
327 (2) INFORMATION FOR SEQ ID NO: 15:  
329 (i) SEQUENCE CHARACTERISTICS:

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Input Set : N:\Crf3\RULE60\09256237.RAW.txt

Output Set: N:\CRF4\05062003\I256237.raw

330 (A) LENGTH: 5 amino acids  
331 (B) TYPE: amino acid  
332 (C) STRANDEDNESS:  
333 (D) TOPOLOGY: linear  
335 (ii) MOLECULE TYPE: peptide  
337 (v) FRAGMENT TYPE: internal  
342 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
344 Arg Arg Phe Phe Ile  
345 1 5  
347 (2) INFORMATION FOR SEQ ID NO: 16:  
349 (i) SEQUENCE CHARACTERISTICS:  
350 (A) LENGTH: 6 amino acids  
351 (B) TYPE: amino acid  
352 (C) STRANDEDNESS:  
353 (D) TOPOLOGY: linear  
355 (ii) MOLECULE TYPE: peptide  
357 (v) FRAGMENT TYPE: internal  
362 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
364 Arg Arg Phe Phe Ile His  
365 1 5  
367 (2) INFORMATION FOR SEQ ID NO: 17:  
369 (i) SEQUENCE CHARACTERISTICS:  
370 (A) LENGTH: 6 amino acids  
371 (B) TYPE: amino acid  
372 (C) STRANDEDNESS:  
373 (D) TOPOLOGY: linear  
375 (ii) MOLECULE TYPE: peptide  
377 (v) FRAGMENT TYPE: internal  
382 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
384 Arg Arg Phe Phe Ile Val  
385 1 5  
387 (2) INFORMATION FOR SEQ ID NO: 18:  
389 (i) SEQUENCE CHARACTERISTICS:  
390 (A) LENGTH: 8 amino acids  
391 (B) TYPE: amino acid  
392 (C) STRANDEDNESS:  
393 (D) TOPOLOGY: linear  
395 (ii) MOLECULE TYPE: peptide  
397 (v) FRAGMENT TYPE: internal  
402 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:  
404 Ser Phe Ser Ile Gln Tyr Ile Val  
405 1 5  
407 (2) INFORMATION FOR SEQ ID NO: 19:  
409 (i) SEQUENCE CHARACTERISTICS:  
410 (A) LENGTH: 8 amino acids  
411 (B) TYPE: amino acid  
412 (C) STRANDEDNESS:  
413 (D) TOPOLOGY: linear  
415 (ii) MOLECULE TYPE: peptide

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/256,237

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TIME: 11:11:11

Input Set : N:\Crf3\RULE60\09256237.RAW.txt  
Output Set: N:\CRF4\05062003\I256237.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos.1,2,4

## VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09256237.RAW.txt

Output Set: N:\CRF4\05062003\I256237.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:39 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)  
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:79 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2  
L:98 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3